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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: IN VIVO ANGIOGENESIS ASSAY

(57) Abstract: A method for evaluating *in vivo* a test substance for angiogenesis modulation activity, including the steps of providing a rodent pup having a pupillary membrane system in a first eye, injecting transcorneally proximate to the pupillary membrane a test substance; and examining the pupillary membrane to determine whether new vascular tissue has grown. The method can also evaluate the ability of a test substance to regress existing vascular tissue, or to inhibit or prevent new vascular tissue, by injecting transcorneally a first substance that induces new vascular tissue growth, then injecting a test substance, and examining the pupillary membrane to determine whether new vascular tissue has grown. The assay can also be used to evaluate the effect of a small molecule on a property of a capillary vessel, and to evaluate a test substance on a problematic vascular condition.

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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/20208

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/00; A61K 49/00

US CL : 435/4; 424/9.1, 9.2

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/4; 424/9.1, 9.2

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,255,353 B1 (WATERBURY et al) 3 July 2001 (03.07.2001), entire document, especially examples 3, 4.	1 - 10
A, P	US 6,479,729 B1 (CAMPOCHIARO et al) 12 November 2002 (12.11.2002), entire document.	1 - 10

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

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**INTERNATIONAL SEARCH REPORT**

PCT/US03/2

**Continuation of B. FIELDS SEARCHED Item 3:**

STN-CAS, WEST, PubMed

search terms: angiogenesis, vascular tissue, pupillary membrane, congenital blindness, eye, test substance, compound, assay